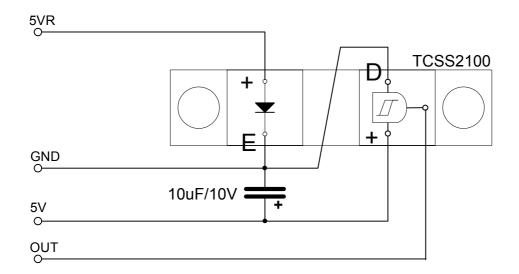
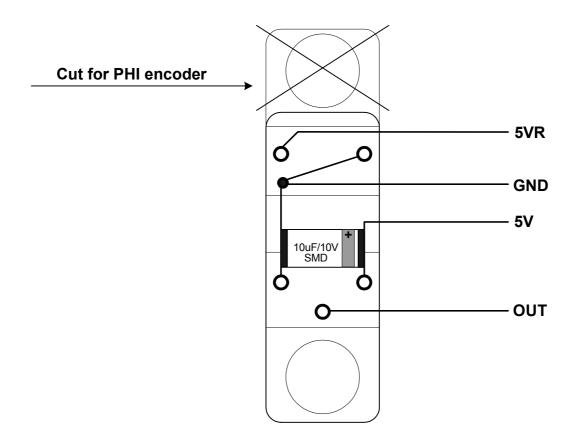


oxford diffraction DRG NO. OD-1-01-02-12	XCALIBUR 2 Goniometer - electrical diagram			
DRAWN BY: RS	FILE:	\electronics\xcalibur\Elect		REV.
APPROWED BY:	DATE:	17/09/2001	SHEET:	1 of 1

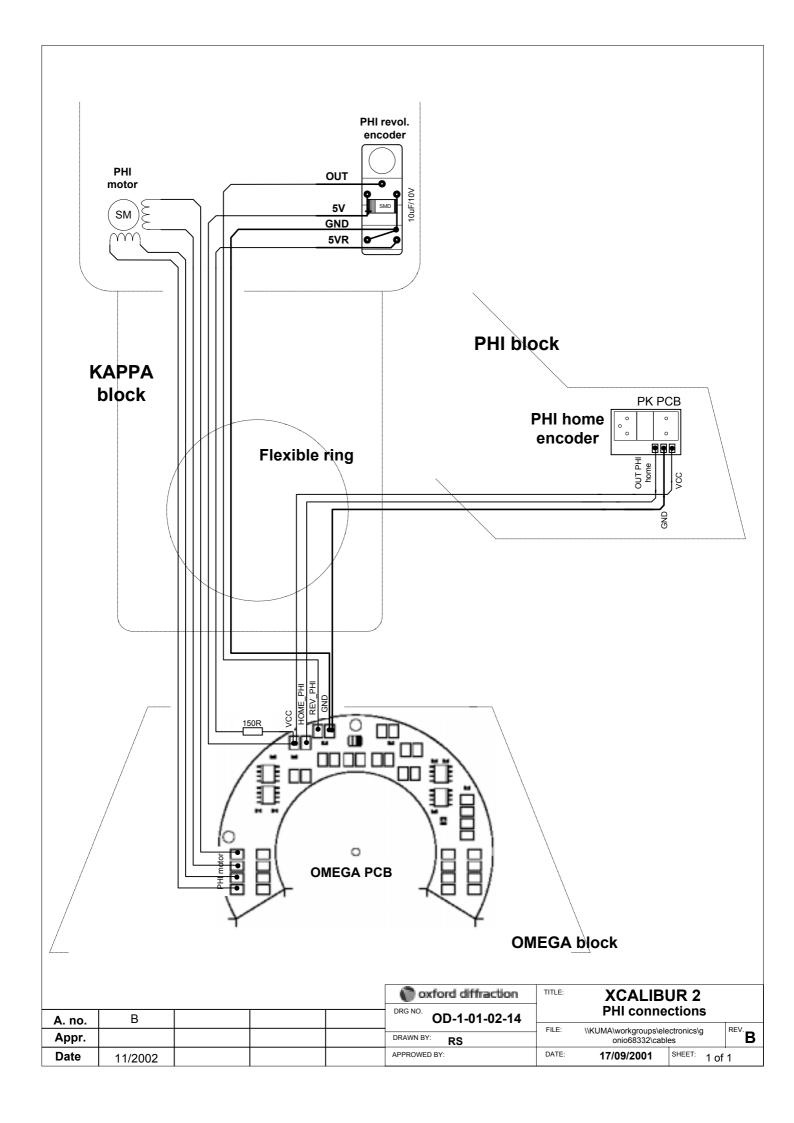


Capacitors 10uF/10V for Revol. encoders (KAPPA and PHI axis)



Connections view for Revol. encoders (KAPPA and PHI axis). Capacitor size: 3528. Encoder type: TCSS2100 - bottom view.

oxford diffraction DRG NO. OD-1-01-02-13	TITLE: XCALIBUR 2 Goniometer - electrical diagram			diagram
DDAMADY.	FILE:	lelectronics/xcalibut/Liectrical		REV.
RS	documentation v200\			A
APPROWED BY:	DATE:	DATE: 04/12/2001 SHEET: 1.0		1 of 1



Stepping motor connector:

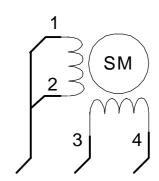
# pin	name	description
1	motor 0 – phase A	
2	motor 0 – phase B	phi
3	motor 1 – phase A	kanna
4	motor 1 – phase B	kappa
5	motor 2 – phase A	omega
6	motor 2 – phase B	omega
7	motor 3 – phase A	theta
8	motor 3 – phase B	lineta
9	motor 4 – phase A	Detector
10	motor 4 – phase B	Detector
11		
12	GND	
13	GND	
14	motor 0 – phase -A	phi
15	motor 0 – phase -B	Pili
16	motor 1 – phase -A	kappa
17	motor 1 – phase -B	Карра
18	motor 2 – phase -A	omega
19	motor 2 – phase -B	omega
20	motor 3 – phase -A	theta
21	motor 3 – phase -B	liicid
22	motor 4 – phase -A	Detector
23	motor 4 – phase -B	20.00.01
24	GND	
25	GND	

Stepping motor - Parallel connection:

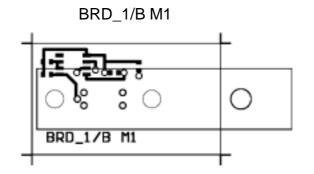
1 - red + white/yellow 2 - yellow + white/red Phase A

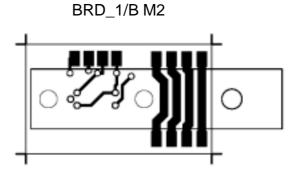
3 - black + white/orange Phase B

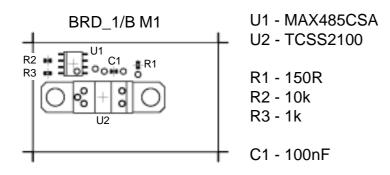
4 - orange + white/black

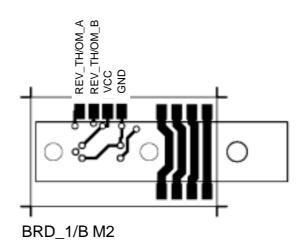


oxford diffraction DRG NO. OD-1-01-02-20	Goniometer Stepping motors connection			
DP-1-01-02-20 DRAWN BY: RS	FILEiectronics\xcalibur\Electrical documentation v200\	B		
APPROWED BY:	DATE: 04/12/2001 SHEET: 1 of 1			

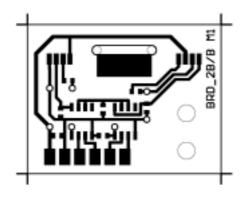


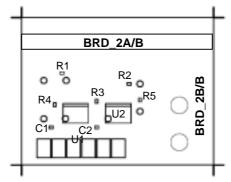






oxford diffraction	TITLE: OMEGA and THETA Printed				
OD-1-01-02-15		Connector	BRD_1	B	
00-1-01-02-13	FILE:	\electronics\xcalibur\Elect	rical		REV.
DRAWN BY: RS		documentation v200			Α
APPROWED BY:	DATE:	17/09/2001	SHEET:	1 c	of 1

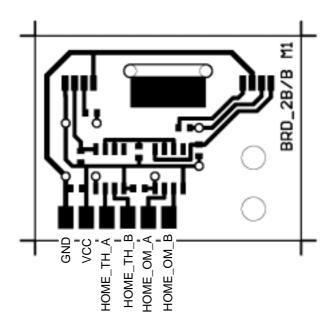




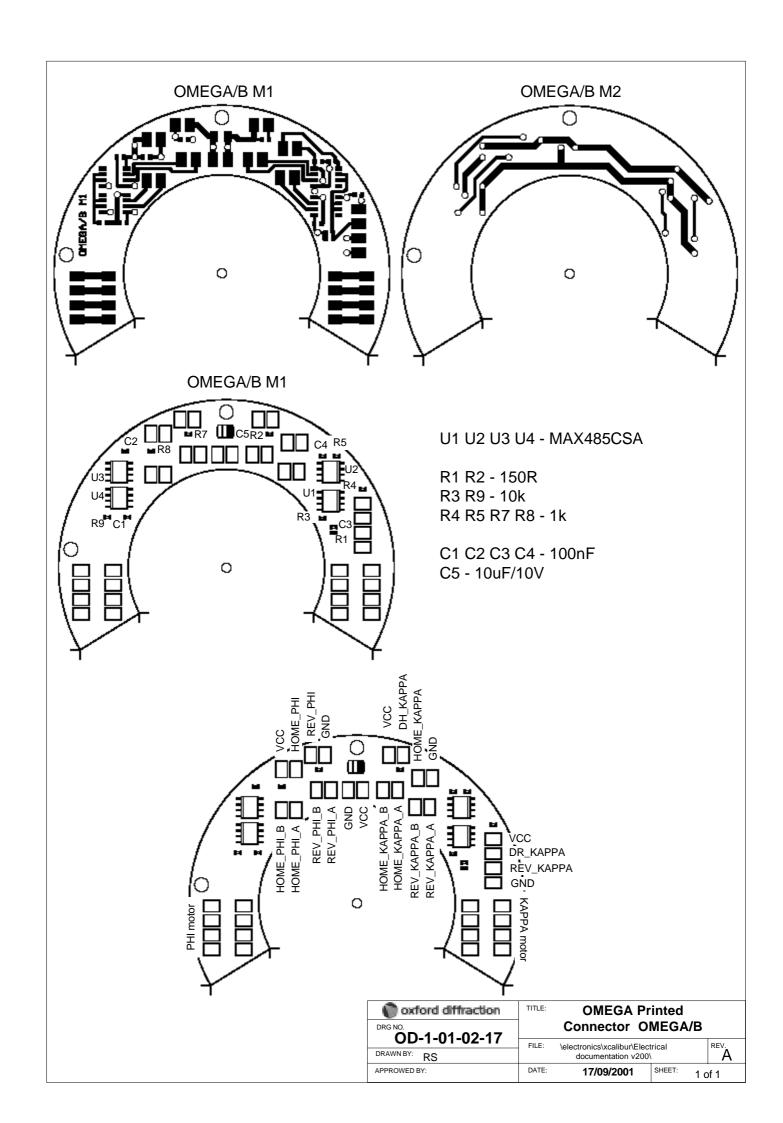
U1, U2 - MAX485CSA

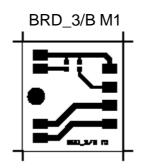
R1, R2 - 150R R3 - 10k R4, R5 - 1k

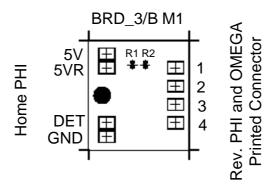
C1, C2 - 100nF



oxford diffraction	TITLE:	TITLE: OMEGA and THETA Home			
OD-1-01-02-16		encoders BRD_2B/B			
DRAWN BY: RS	FILE:	\electronics\xcalibur\Electrical documentation v200\			A REV.
APPROWED BY:	DATE:	17/09/2001	SHEET: 1 of 1		of 1

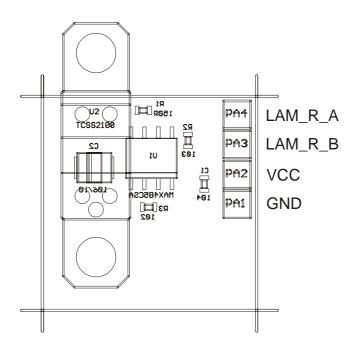




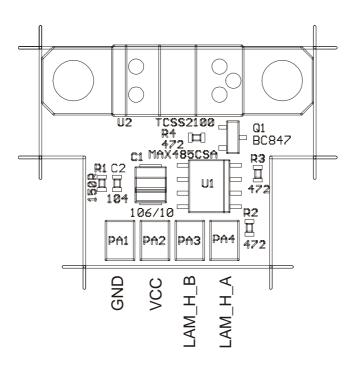


R1 - 150R R2 - 150R

oxford diffraction DRG NO. OD-1-01-02-18	PHI Printed Connector BRD_3/B				
	FILE:	\electronics\xcalibur\Elect	rical	REV.	
DRAWN BY: RS		documentation v200\			
APPROWED BY:	DATE:	17/09/2001	SHEET: 1 (of 1	



CCD camera - encoder REV.



CCD camera - encoder HOME.

oxford diffraction	CCD detector HOME and REV. encoders			
OD-1-01-02-19	FILE: \electronics\xcalibur\Electrical		REV.	
DRAWN BY: RS		documentation v200\		Ä
APPROWED BY:	DATE:	17/09/2001	SHEET: 1 of 1	